Test Cases for Lab Test on 10 November

Question 1 (**TAYLOR SERIES EXPANSION OF** e^x)

1. 1 1
   Output :
   1.000000

2. 1 2
   Output :
   2.000000

3. 1 10
   Output :
   2.718282

4. 0 10
   Output :
   1.000000

5. -0.5 3
   Output :
   0.625

Question 2 (**POSITIVE FRACTION**)

While evaluating this question, any value which is equal to the answer fraction should be considered as correct. e.g. 50/100 = 20/40 = 34/68 = 1/2.

testcase-1: 1 2 1 3

Fractions are not equal
After addition: 5/6
After multiplication: 5/18

testcase-2: 4 2 12 6
Output :
Fractions are equal
After addition: 48/12
After multiplication: 576/72

Question 3 (**Counting Shortest Routes**)

1. 1 1
   Output :
   4

2. 2 1
   Output :
   9

3. 2 2
   Output :
   36

4. 3 3
   Output :
   400

5. 4 4
   Output :
   4900

Grading Policy

- For Question 1, grade totally based on the test cases : Each test case carries 2 marks.
- For Question 2, each test case carries 2 marks. The remaining 8 marks are distributed as follows :
    1. 1 mark for attributes. They should be of type int or long.
    2. 2 marks for constructors (one mark per constructor)
    3. 1 mark for the non-static method **display** .
    4. 2 marks for the non-static method **multiply**.
    5. 2 mark for the non-static method **isEqual**.
- For Question 3, each test case has 2 marks. The remaining 8 marks are distributed as follows
    1. 6 marks for logic
    2. 2 marks for coding style